

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Spring 2020 Levee Inspection Results**

**Reclamation District No. 0017 Mossdale**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2020 Levee Inspection Results**

**Reclamation District No. 0017 Mossdale**

Waterway			Bank	Unit Miles
Unit No. 01 French Camp Slough			Left	1.76
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/19/2020 - 3/19/2020			
DWR Inspector	Alberto De Leon			
Accompanied By	Richard Toy KSN			
	Scott Solari RD 17			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	03/19/2020 03/19/2020	Alberto De Leon

LM Start	0.00	Rating **	A	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_RD0017_01_s_2013_1				
Comment Code					
Inspector Comment					
LMA has a copy of the manual on file.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	2		
LM End	0.00	Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Emergency Supplies & Equipment				°		°
					°		°
DWR ID	DWR_RD0017_01_s_2013_2						
Comment Code							
Inspector Comment							
LMA has adequate flood fight supplies.							

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD0017_01_s_2013_3				
Comment Code					
Inspector Comment					
District staff are involved in training sponsored by DWR.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	03/19/2020 03/19/2020	Alberto De Leon

LM Start	0.03	Rating **	M	Issue No.	14
LM End	0.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.911561 °	37.911561 °
				-121.291441 °	-121.291441 °
DWR ID	1				
Comment Code					
Inspector Comment					
DS_ID:1 FS_ID:40603 EP_NO: 6623 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Marker missing on landward side. Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition. FIELD_STRUCT_DESC: 5.563-inch welded steel natural gas pipeline through the levees, 4.5 feet below the crown, across the channels and overflow area. (5-inch gas line authorized under Permit No. 6623, 1969 - Laymac Corporation) [Additional Reference(s): DWR Levee Logs, 1981, 2003]. FS Date: 2/3/2010					

LM Start	<b>0.03</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>0.03</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40603\_38480.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2020\_40603\_38479.jpg



View of levee crown at crossing. Marker for line visible on waterward shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>0.03</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>0.03</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.911561 °	37.911561 °	
			-121.291441 °	-121.291441 °	
DWR ID	1				

Photo 3 of 3 : UCIP\_SP\_2020\_40603\_38478.jpg



View of landward side.

LM Start	<b>0.15</b>	Rating **	M	Issue No.	<b>15</b>
LM End	<b>0.15</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.912850 °	37.912850 °	
			-121.292910 °	-121.292910 °	
DWR ID	72				

**Comment Code**

**Inspector Comment**

DS\_ID:72  
 FS\_ID:49990  
 EP\_NO: 15185  
 Repair Type: Non-Urgent  
 Crossing Status: Indicator Found  
 UCIP Comments: 04/06/2018 Received supporting information from T. Marlow with KSN pertaining to line. PG&E has installed gas line distribution markers on both shoulder of the levee. Crossing is an active line. PG&E performs a leak survey at least twice a year according to Mr. R. Muok, Supervisor, Gas Pipeline Operations and Maintenance Stockton. Mr. Muok can be reached at 209-406-7926. Crossing has been downgraded from Urgent to Non-Urgent--pipe is inspected by owner. UCIP will need to coordinate with PG&E to obtain confirmation of inspections, obtain emergency contact information, and maintenance contact information. (DWR UCIP - O. Magana)  
 07/12/2016 No markers (no photos taken in 2016). Need to contact owner to determine status of crossing. If crossing is active, owner will need to coordinate with CVFPB to install markers to comply with Title 23. (DWR UCIP - omagana)5/19/2015 Need to install gasline markers. (DWR UCIP - omagana)  
 FIELD\_STRUCT\_DESC: 8-inch soil proofed steel gas main through the left bank levee and under the channel of French Camp Slough. The pipeline has a minimum cover of 20 to 25 feet within the overflow areas and under the channel. (8-inch line authorized under Permit No. 15185, 1989 - Pacific Gas & Electric Company [PG&E])  
 FS Date: 7/12/2016

Photo 1 of 3 : UCIP\_SP\_2020\_49990\_74222.jpg



Gas access lid in sidewalk Approximately 200-feet to west of crown.

<b>* Location</b> LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
---	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>0.15</b>	Rating **	M	Issue No.	<b>15 (cont)</b>
LM End	<b>0.15</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.912850 °	37.912850 °	
			-121.292910 °	-121.292910 °	
DWR ID	72				

Photo 2 of 3 : UCIP\_SP\_2020\_49990\_74221.jpg



WS Slope. No gasline markers.

LM Start	<b>0.15</b>	Rating **	M	Issue No.	<b>15 (cont)</b>
LM End	<b>0.15</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_49990\_74220.jpg



LS crown. No gasline markers.

LM Start	0.23	Rating **	C	Issue No.	9
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.913438 °	37.913438 °
				-121.294178 °	-121.294178 °
DWR ID	DWR_RD0017_01_f_2019_9				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	03/19/2020 03/19/2020	Alberto De Leon

LM Start	0.28	Rating **	C	Issue No.	10
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.913466 °	37.913466 °
				-121.295092 °	-121.295092 °
DWR ID	DWR_RD0017_01_f_2019_10				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.50	Rating **	C	Issue No.	11
LM End	0.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.912851 °	37.912851 °
				-121.298940 °	-121.298940 °
DWR ID	DWR_RD0017_01_f_2019_11				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	1.02	Rating **	A	Issue No.	12
LM End	1.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.915650 °	37.915650 °
				-121.307253 °	-121.307253 °
DWR ID	DWR_RD0017_01_s_2020_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_RD0017\_303\_12\_20200323\_00018.jpg



Typical view of well maintained vegetation on landside slope. Spring 2020

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	03/19/2020 03/19/2020	Alberto De Leon

LM Start	1.02	Rating **	A	Issue No.	13
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.915650 °	37.915650 °
				-121.307254 °	-121.307254 °
DWR ID	DWR_RD0017_01_s_2020_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_RD0017\_303\_13\_20200323\_00019.jpg



Typical view of well maintained vegetation on waterside slope. Spring 2020

LM Start	1.31	Rating **	M	Issue No.	16	
LM End	1.31	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.915928 °	37.915928 °	
				-121.312471 °	-121.312471 °	
DWR ID	2					
Comment Code						
Inspector Comment						

DS\_ID:2  
 FS\_ID:40604  
 EP\_NO: 14992  
 Repair Type: Non-Urgent  
 Crossing Status: Indicator Found  
 UCIP Comments: Need to contact owner to determine status of crossing. Also need date of last inspection.  
 FIELD\_STRUCT\_DESC: [Weston Ranch - French Camp Slough Crossings] 1 of 3. 30-inch high-density polyethylene (HDPE) sewer force main (SFM) through the levee, 32 feet below levee crown. All pipes encased in concrete. (two 30-inch force mains (originally issued as 27-inch) and one 12-inch pipe authorized under Permit No. 14992, 1989 - City of Stockton and Richard Blewett) [Additional Reference(s): DWR Levee Logs, 1981, 2003]  
 FS Date: 2/3/2010

Photo 1 of 3 : UCIP\_SP\_2020\_40604\_38491.jpg



Overview of levee crown at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>1.31</b>	Rating **	M	Issue No.	<b>16 (cont)</b>
LM End	<b>1.31</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.915928 °	37.915928 °	
			-121.312471 °	-121.312471 °	
DWR ID	2				

Photo 2 of 3 : UCIP\_SP\_2020\_40604\_38489.jpg



View of landward side.

LM Start	<b>1.31</b>	Rating **	M	Issue No.	<b>16 (cont)</b>
LM End	<b>1.31</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40604\_38495.jpg



Manhole found on landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	03/19/2020 03/19/2020	Alberto De Leon

LM Start	1.31	Rating **	M	Issue No.	17	
LM End	1.31	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.915928 °	37.915928 °	
				-121.312471 °	-121.312471 °	
DWR ID	159					
Comment Code						
Inspector Comment						
DS_ID:159 FS_ID:52614 EP_NO: 14992 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status of crossing. Also need date of last inspection. FIELD_STRUCT_DESC: [Weston Ranch - French Camp Slough Crossings] 2 of 3. 30-inch high-density polyethylene (HDPE) sewer force main (SFM) through the levee, 32 feet below levee crown. All pipes encased in concrete. (two 30-inch force mains (originally issued as 27-inch) and one 12-inch pipe authorized under Permit No. 14992, 1989 - City of Stockton and Richard Blewett) [Additional Reference(s): DWR Levee Logs, 1981, 2003] FS Date: 2/3/2010						

LM Start	<b>1.31</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>1.31</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_52614\_38505.jpg



Overview of levee at crossing.

Photo 2 of 3 : UCIP\_SP\_2020\_52614\_38503.jpg



View of landward toe--established neighborhood.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

# Reclamation District No. 0017 Mosssdale

Page 9 of 10

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>1.31</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>1.31</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.915928 °	37.915928 °	
			-121.312471 °	-121.312471 °	
DWR ID	158				

Photo 2 of 3 : UCIP\_SP\_2020\_40606\_71941.jpg



View of landward side.

LM Start	<b>1.31</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>1.31</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40606\_71940.jpg



Manhole visible on landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2020 Levee Inspection Results**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles
Unit No. 02 San Joaquin River	Right	14.27

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/19/2020 - 3/19/2020			
DWR Inspector	Alberto De Leon			
Accompanied By	Richard Toy KSN			
	Scott Solari RD 17			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	0.14	Rating **	M	Issue No.	97	
LM End	0.14	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.914335 °	37.914335 °	
				-121.322387 °	-121.322387 °	
DWR ID	75					
Comment Code						
Inspector Comment						
DS_ID:75 FS_ID:40628 EP_NO: 15093 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Only appurtenances remaining at this location--4 pillings located on waterward side. According to records the pillings were to be removed under a completion maintenace contract. Need to coordinate with owner. FIELD_STRUCT_DESC: 14-inch-diameter pipeline through levee at unknown depth. Per inspector's notes "this crossing is abandoned almost all materials removed including pipes, conduit, and pump house. The only items left are 4 pilings which are to be removed under a completion maintenance contract. Approximately 200 feet of reinforced concrete pipe lateral removed in R/W south of crossing". FS Date: 2/3/2010						

LM Start	<b>0.14</b>	Rating **	M	Issue No.	<b>97 (cont)</b>
LM End	<b>0.14</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40628\_38516.jpg



View of landward side.

Photo 2 of 3 : UCIP\_SP\_2020\_40628\_38515.jpg



View of waterward side--pillings inside channel.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	0.14	Rating **	M	Issue No.	97 (cont)
LM End	0.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.914335 °	37.914335 °
				-121.322387 °	-121.322387 °
DWR ID	75				

Photo 3 of 3 : UCIP\_SP\_2020\_40628\_38514.jpg



View of waterward side.

LM Start	1.13	Rating **	M	Issue No.	73
LM End	1.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.901693 °	37.901693 °
				-121.325582 °	-121.325582 °
DWR ID	DWR_RD0017_02_s_2017_73				
Comment Code					
BU : Building					
Inspector Comment					
Dog kennels are within flood control right of way.					

Photo 1 of 1 : SP\_2020\_RD0017\_304\_73\_20200228\_00002.jpg

View of dog kennels within flood control right of way on landside slope.  
Fall 2019

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	1.18	Rating **	M	Issue No.	98
LM End	1.18	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.901012 °	37.901012 °
				-121.325497 °	-121.325497 °
DWR ID	9				
Comment Code					
Inspector Comment					
DS_ID:9					
FS_ID:45449					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Appears abandoned. Should contact owner to determine status as signs have been removed from supports and should be replaced if still in service.					
FIELD_STRUCT_DESC: Underground telephone cable through levee, 2 feet below crown. Warning signs on waterside (WS) slope. [Additional Reference(s): DWR Levee Logs, 1981, 2003]					
FS Date: 5/19/2015					

Photo 1 of 2 : UCIP\_SP\_2020\_45449\_74105.jpg



Sign on WS slope.

LM Start	<b>1.18</b>	Rating **	M	Issue No.	<b>98 (cont)</b>
LM End	<b>1.18</b>	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP\_SP\_2020\_45449\_74104.jpg



No markers on LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	1.18	Rating **	M	Issue No.	99
LM End	1.18	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.901012 °	37.901012 °
				-121.325497 °	-121.325497 °
DWR ID	308				
Comment Code					
Inspector Comment					
DS_ID:308 FS_ID:45450 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears Abandoned. Need to contact owner to determine status of crossing as signs have been removed from markers and should be replaced if still in service. FIELD_STRUCT_DESC: 4-inch submarine telephone cable of unknown material through the levee, 2 feet below the crown, and across the channel. Location marker on the waterside (WS) slope. [Additional Reference(s): DWR Levee Logs, 1981, 2003] FS Date: 5/19/2015					

Photo 1 of 2 : UCIP\_SP\_2020\_45450\_74107.jpg



Sign post on WS slope.

LM Start	<b>1.18</b>	Rating **	M	Issue No.	<b>99 (cont)</b>
LM End	<b>1.18</b>	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP\_SP\_2020\_45450\_74106.jpg



No markers on LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	1.23	Rating **	M	Issue No.	100
LM End	1.23	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.900242 °	37.900242 °
				-121.325497 °	-121.325497 °
DWR ID	10				
Comment Code					
Inspector Comment					
DS_ID:10 FS_ID:49637 EP_NO: 15098 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/19/2015 Only signs of electrical conduit found. Need to contact owner to determine status of pipe as no record of removal has been found and only an electrical conduit was found at this location. (DWR UCIP - W. Wylie) FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 3.3 feet below levee crown. Electrical conduit through levee. Pump house located on waterside (WS) berm. Siphon breaker on WS shoulder, standpipe located 10 feet from landside (LS) toe. (8-inch pipe authorized under Permit No. 15098, 1989 - G. La Baume, permit also includes authorization of 12-inch pipe at different location). [Additional Reference(s): DWR Levee Logs, 1981, 2003] FS Date: 5/19/2015					

LM Start	<b>1.23</b>	Rating **	M	Issue No.	<b>100 (cont)</b>
LM End	<b>1.23</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_SP\_2020\_49637\_74109.jpg



View of WS slope with electrical conduit.

Photo 2 of 2 : UCIP\_SP\_2020\_49637\_74108.jpg



View of LS. No appurtenances noted.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	1.45	Rating **	M	Issue No.	101	
LM End	1.45	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.897280 °		37.897280 °
				-121.326775 °		-121.326775 °
DWR ID	11					
Comment Code						
Inspector Comment						
DS_ID:11						
FS_ID:40639						
EP_NO: 15316						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Need to contact owner to determine status--pipe was not found only siphon breaker housing unit.						
FIELD_STRUCT_DESC: 8-inch steel drainage pipeline through levee, 3 feet below levee crown. Siphon breaker on the waterside (WS) shoulder. Pump is located inside ditch located approximately 75 feet landside (LS) of levee toe. (8-inch pipe authorized under Permit No. 15316, 1989 - W. Long and Reclamation No. 17 [RD0017], 10-inch pipe also installed) [Additional Reference(s): DWR Levee Logs, 1981, 2003, 8-inch pipe listed]						
FS Date: 2/4/2010						

LM Start	<b>1.45</b>	Rating **	M	Issue No.	<b>101 (cont)</b>
LM End	<b>1.45</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40639\_38687.jpg



View of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2020\_40639\_38686.jpg



View of landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>1.45</b>	Rating **	M	Issue No.	<b>101 (cont)</b>
LM End	<b>1.45</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.897280 °	37.897280 °	
			-121.326775 °	-121.326775 °	
DWR ID	11				

Photo 3 of 3 : UCIP\_SP\_2020\_40639\_38685.jpg



Siphon breaker located on waterward slope.

LM Start	<b>1.50</b>	Rating **	M	Issue No.	<b>102</b>
LM End	<b>1.50</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.896602 °	37.896602 °	
			-121.327104 °	-121.327104 °	
DWR ID	12				

**Comment Code**

**Inspector Comment**

DS\_ID:12  
 FS\_ID:40640  
 EP\_NO: 15099  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23.  
 FIELD\_STRUCT\_DESC: 16-inch steel irrigation pipe through levee, 2.30 feet below levee crown. Siphon breaker on waterside (WS) shoulder. Pump house located on the WS berm. Standpipe located 15 feet from landside (LS) toe. Concrete stairway on WS slope. (16-inch pipe removed under Permit No. 15099, 1989 - W. Long, 12-inch pipe removed) [Additional Reference(s): DWR Levee Logs, 1981, 2003]  
 FS Date: 2/4/2010

Photo 1 of 3 : UCIP\_SP\_2020\_40640\_71981.jpg



View of levee crown at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>1.50</b>	Rating **	M	Issue No.	<b>102 (cont)</b>
LM End	<b>1.50</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.896602 °	37.896602 °	
			-121.327104 °	-121.327104 °	
DWR ID	12				

Photo 2 of 3 : UCIP\_SP\_2020\_40640\_38706.jpg



Standpipe located on landward side.

LM Start	<b>1.50</b>	Rating **	M	Issue No.	<b>102 (cont)</b>
LM End	<b>1.50</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40640\_71983.jpg



Concrete irrigation canal located at landward toe just upstream of crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	1.67	Rating **	M	Issue No.	103
LM End	1.67	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.894217 °	37.894217 °
				-121.328231 °	-121.328231 °
DWR ID	13				

**Comment Code**

**Inspector Comment**

DS\_ID:13  
FS\_ID:49640  
EP\_NO: 15100  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 09/07/2016 Need to coordinate with owner to determine if 12-inch pipe was sleeved through authorized 16-inch pipe. Unable to confirm if 12-inch pipe was authorized under Permit No. 15100. Also need to coordinate with owner to determine extent of repair to crossing--previous leak to WS pipe section. (DWR UCIP - O. Magana)05/19/2015 Notes were initially recorded under DS\_ID entry 82 due to field confirmed pipe size (12-inch and not 16-inch as described in permit). Record was updated to show 12 inch crossing was authorized under Permit 15100. UPDATED INFO @ CROSSING: Damage pipe section located on waterward toe has been replaced with new section. (DWR UCIP - O. Magana)02/0/2010 Holes in pipe at WS toe good indicator of pipe internal condition. Owner should perform an internal inspection of the pipe through the levee. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 16-inch steel irrigation pipe through levee, 2.35 feet below the crown. Siphon breaker is located on the waterside (WS) shoulder. Pump is supported by steel support beams in the ditch located approximately 35 feet from landside (LS) toe. Ramp is located on the LS slope. (16-inch pipe installed under Permit No. 15100, 1990 - W. Long). [Additional Reference(s): DWR Levee Logs, 1981, 2003]  
FS Date: 5/19/2015

LM Start	<b>1.67</b>	Rating **	M	Issue No.	<b>103 (cont)</b>
LM End	<b>1.67</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_49640\_74436.jpg



(2015) Damage pipe section located on WS toe has been replaced.

Photo 2 of 3 : UCIP\_SP\_2020\_49640\_74437.jpg



(2015) View of landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>1.67</b>	Rating **	M	Issue No.	<b>103 (cont)</b>
LM End	<b>1.67</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.894217 °	37.894217 °	
			-121.328231 °	-121.328231 °	
DWR ID	13				

Photo 3 of 3 : UCIP\_SP\_2020\_49640\_74432.jpg



Pump, vent, butterfly valve, and pipe visible off LS toe.

LM Start	1.92	Rating **	M	Issue No.	66
LM End	1.92	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.890982 °	37.890982 °
				-121.327848 °	-121.327848 °
DWR ID	DWR_RD0017_02_s_2020_66				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	1.93	Rating **	C	Issue No.	83
LM End	1.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.890805 °	37.890413 °
				-121.327952 °	-121.328218 °
DWR ID	DWR_RD0017_02_s_2018_83				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	2.02	Rating **	M	Issue No.	104	
LM End	2.02	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.889622 °	37.889622 °	
				-121.328721 °	-121.328721 °	
DWR ID	14					
Comment Code						
Inspector Comment						
DS_ID:14 FS_ID:40642 EP_NO: 15317 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to coordinate with owner to determine status of crossing. Need to find out if pipe located on landward side is tied to pipe through levee. Pipe found on waterward side is filled with concrete (non-functional). FIELD_STRUCT_DESC: 10-inch steel drainage pipe through levee, 3.91 feet below levee crown. Siphon breaker on waterside (WS) slope. Pump in ditch located 300 feet landside (LS) of toe. Ramp on LS slope. 10-inch pipe connects to an existing 16-inch discharge pipe on the LS. (10-inch installed under Permit No. 15317, 1990 - Calcagno Farms and Reclamation District 17 [RD0017], 16-inch section from levee removed; 10-pipe was installed during the levee work approved under Permit No. 15014, 1989 - RD0017). [Additional Reference(s): DWR Levee Logs, 1981, 2003] FS Date: 2/4/2010						

LM Start	<b>2.02</b>	Rating **	M	Issue No.	<b>104 (cont)</b>
LM End	<b>2.02</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40642\_38742.jpg



View of waterward side--riser located on waterward shoulder.

Photo 2 of 3 : UCIP\_SP\_2020\_40642\_38740.jpg



View of landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>2.02</b>	Rating **	M	Issue No.	<b>104 (cont)</b>
LM End	<b>2.02</b>	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.889622 °	37.889622 °
				-121.328721 °	-121.328721 °
DWR ID	14				

Photo 3 of 3 : UCIP\_SP\_2020\_40642\_38746.jpg



Unidentified appurtenances located on landward side-unable to confirm if pipe crosses levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	2.05	Rating **	M	Issue No.	105
LM End	2.05	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.889296 °	37.889296 °
				-121.328847 °	-121.328847 °
DWR ID	15				

**Comment Code**

**Inspector Comment**

DS\_ID:15  
FS\_ID:49992  
EP\_NO: 15101  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 7/12/2016 Rodent activity is present at this crossing. Unable to confirm if sink hole was present--depression near riser is still visible. Pipe was running during site visit. Crossing has been downgraded from Urgent to Non-Urgent---no damage was visible to levee crown or LS slope and only minor depression found around WS riser. Depression near siphon breaker on WS shoulder could be due to poor compaction or rodent activity--recommend monitoring site. Need to contact owner to determine if any internal integrity inspections have been done at this crossing. (DWR UCIP - omagana)2/04/2010 Sink hole present at siphon breaker riser located on waterward shoulder. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 16-inch steel irrigation pipe through levee, 2.93 feet below levee crown. Siphon breaker is located on the waterside (WS) shoulder. Pump house is located on the WS berm. Concrete stairway is located on WS slope. Concrete standpipe is located approximately 25 feet from landside (LS) toe. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (16-inch pipe authorized under Permit No. 15101, 1989 - Calcagno Farms Co-Partnership, existing 18-inch pipe removed; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17 [RD0017]) [Additional Reference(s): DWR Levee Log, 1981 and 2003]  
FS Date: 7/12/2016

Photo 1 of 3 : UCIP\_SP\_2020\_49992\_38770.jpg



View of LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>2.05</b>	Rating **	M	Issue No.	<b>105 (cont)</b>
LM End	<b>2.05</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.889296 °	37.889296 °	
			-121.328847 °	-121.328847 °	
DWR ID	15				

Photo 2 of 3 : UCIP\_SP\_2020\_49992\_38773.jpg



View of WS.

LM Start	<b>2.05</b>	Rating **	M	Issue No.	<b>105 (cont)</b>
LM End	<b>2.05</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_49992\_38774.jpg



View of WS slope--riser and pipe visible.

LM Start	2.05	Rating **	C	Issue No.	88
LM End	2.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.889225 °	37.889225 °
				-121.328881 °	-121.328881 °
DWR ID	DWR_RD0017_02_s_2019_88				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	2.19	Rating **	C	Issue No.	89
LM End	2.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.887481 °	37.887481 °
				-121.329877 °	-121.329877 °
DWR ID	DWR_RD0017_02_s_2019_89				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.23	Rating **	M	Issue No.	106	
LM End	2.23	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.887057 °	37.887057 °	
				-121.330484 °	-121.330484 °	
DWR ID	16					
Comment Code						
Inspector Comment						
DS_ID:16 FS_ID:40645 EP_NO: 15102 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to coordinate with owner to determine status of crossing. FIELD_STRUCT_DESC: 20-inch steel irrigation pipeline through levee. Invert of pipe is 2.8 feet below levee crown. Fill placed over the pipeline to provide 2.0 feet of cover. Siphon breaker on waterside (WS) shoulder. Pump on platform with walkway to shoulder, standpipe located 15 feet landside (LS) toe, concrete stairway en waterside (WS) slope. (20-inch pipe installed under Permit No. 15102, 1990 - Calcagno Farms Co-Partnership, also 24-inch pipe removed; 20-inch pipe was installed during the levee work approved under Permit No. 15014, 1989 - Reclamation District 17 [RD0017]). [Additional Reference(s): DWR Levee Logs, 1981, 2003] FS Date: 2/4/2010						

Photo 1 of 3 : UCIP\_SP\_2020\_40645\_72002.jpg



View of levee crown at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>2.23</b>	Rating **	M	Issue No.	<b>106 (cont)</b>
LM End	<b>2.23</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.887057 °	37.887057 °	
			-121.330484 °	-121.330484 °	
DWR ID	16				

Photo 2 of 3 : UCIP\_SP\_2020\_40645\_72001.jpg



Standpipe located on landward toe.

LM Start	<b>2.23</b>	Rating **	M	Issue No.	<b>106 (cont)</b>
LM End	<b>2.23</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40645\_72006.jpg



Overview of waterward side.

LM Start	2.25	Rating **	A	Issue No.	67
LM End	2.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.886888 °	37.886888 °
				-121.330666 °	-121.330666 °
DWR ID	DWR_RD0017_02_s_2020_67				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_RD0017\_304\_67\_20200323\_00186.jpg



Typical view of well maintained vegetation on landside slope. Spring 2020

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	2.25	Rating **	A	Issue No.	68
LM End	2.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.886888 °	37.886888 °
				-121.330667 °	-121.330667 °
DWR ID	DWR_RD0017_02_s_2020_68				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_RD0017\_304\_68\_20200323\_00187.jpg



Typical view of well maintained vegetation on waterside slope. Spring 2020

LM Start	2.49	Rating **	M	Issue No.	107	
LM End	2.49	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.883427 °		37.883427 °
				-121.331189 °		-121.331189 °
DWR ID	17					
Comment Code						
Inspector Comment						
DS_ID:17 FS_ID:40646 EP_NO: 15103 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through levee. Invert of pipe is 3.47 feet below crown. Siphon breaker on landside (LS) shoulder. Pump house on waterside (WS) slope, standpipe located 10 feet from LS toe. Concrete stairway on WS slope. (new 8-inch authorized under Permit No. 15103, 1990 - C. Young, existing 8-inch pipe removed; new 8-inch pipe was installed during the levee work approved under Permit No. 15014) [Additional Reference(s): DWR Levee Logs, 1981, 2003] FS Date: 2/4/2010						

Photo 1 of 3 : UCIP\_SP\_2020\_40646\_72010.jpg



View of waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>2.49</b>	Rating **	M	Issue No.	<b>107 (cont)</b>
LM End	<b>2.49</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.883427 °	37.883427 °	
			-121.331189 °	-121.331189 °	
DWR ID	17				

Photo 2 of 3 : UCIP\_SP\_2020\_40646\_72009.jpg



View of levee crown at crossing.

LM Start	<b>2.49</b>	Rating **	M	Issue No.	<b>107 (cont)</b>
LM End	<b>2.49</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40646\_72008.jpg



Inside view of standpipe located on landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	2.66	Rating **	M	Issue No.	108	
LM End	2.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.881091 °	37.881091 °	
				-121.331842 °	-121.331842 °	
DWR ID	315					
Comment Code						
Inspector Comment						
DS_ID:315 FS_ID:46009 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/19/15 Pipe has been removed. Need to contact KSN, engineering consultants for LMA, to obtain records showing pipe removal and obtain permit authoring work. 02/04/10 Hole present on waterward side pipe--historical records indicate crossing abandoned however unable to confirm. Unable to confirm condition of pipe through levee. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. FIELD_STRUCT_DESC: *REMOVED* 4-inch irrigation pipe of unknown material through the levee, 2 feet below the crown. Pipe open on both ends, waterside (WS) and landside (LS). Pump on concrete pad and gate valve located on the WS slope. [Additional Reference(s): DWR Levee Logs, 1981, 2003] FS Date: 5/19/2015						

LM Start	<b>2.66</b>	Rating **	M	Issue No.	<b>108 (cont)</b>
LM End	<b>2.66</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_46009\_74439.jpg



(2015) View of waterward slope.

Photo 2 of 3 : UCIP\_SP\_2020\_46009\_74441.jpg



(2015) View of waterward slope--pipe removed.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	2.66	Rating **	M	Issue No.	108 (cont)	
LM End	2.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.881091 °	37.881091 °	
				-121.331842 °	-121.331842 °	
DWR ID	315					

Photo 3 of 3 : UCIP\_SP\_2020\_46009\_74438.jpg



(2015) Pipe removed from waterward toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	2.67	Rating **	U	Issue No.	109
LM End	2.67	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.880960 °	37.880960 °
				-121.331846 °	-121.331846 °
DWR ID	277				
Comment Code					
Inspector Comment					
DS_ID:277 FS_ID:53328 EP_NO: 15104 Repair Type: Urgent Crossing Status: Found UCIP Comments: 9/5/2018 Same as last inspection. There was no leak present at time of inspection but the pipe encasement is same as last set of pictures, so the crossing remains Urgent (D. Sanoski - DWR UCIP).7/12/2016 Leak is present on WS section of pipe. Recommend an internal inspection of the pipe through the levee due to the age of the pipe and the present leak found on the WS. Owner will need to coordinate with DWR Inspector and CVFPB to address leak. (DWR UCIP - O. Magana)5/19/2015 Crossing is being maintained. (DWR UCIP - O. Magana)2/04/2010 Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 2.18 feet below levee crown. Three pipes are within a 30 foot section of levee and the fourth pipe crosses at the extension of Mathews Road. Two concrete stairways are located on the waterside (WS) slope. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (8-inch pipe installed under Permit No. 15104, 1989 - R. Remonda and C. Young; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17 [RD0017]) [Additional Reference(s): DWR Levee Log, 1981 and 2003] FS Date: 9/5/2018 9:53:00 AM					

Photo 1 of 3 : UCIP\_SP\_2020\_53328\_75745.jpg



View of WS--slope cleared of vegetation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>2.67</b>	Rating **	U	Issue No.	<b>109 (cont)</b>
LM End	<b>2.67</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.880960 °	37.880960 °	
			-121.331846 °	-121.331846 °	
DWR ID	277				

Photo 2 of 3 : UCIP\_SP\_2020\_53328\_75742.jpg



WS view--moisture observed on ground below wrapped pipe section,  
photo 1 of 2.

LM Start	<b>2.67</b>	Rating **	U	Issue No.	<b>109 (cont)</b>
LM End	<b>2.67</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_53328\_75743.jpg



Pipe leak visible on WS pipe section, photo 2 of 2.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	2.67	Rating **	U	Issue No.	110
LM End	2.67	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.880923 °	37.880923 °
				-121.331857 °	-121.331857 °
DWR ID	278				

**Comment Code**

**Inspector Comment**

DS\_ID:278  
FS\_ID:53329  
EP\_NO: 15104  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 9/5/2018 Same as last inspection. Recommend contacting owner to see if crossing still in use. Crossing remains Urgent because of pipe integrity (D. Sanoski - DWR UCIP).7/12/2016 Same as previous inspection. Holes visible along exposed WS section of pipe. (DWR UCIP - omagana)5/19/2015 Holes through pipe visible on waterward toe. Recommend contacting owner to confirm pipe use--good candidate for internal inspection. (DWR UCIP - omagana)2/04/2010 Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. (DWR UCIP - omagana) FIELD\_STRUCT\_DESC: 8-inch steel irrigation pipe through the levee, 2.85 feet below levee crown. Pump station is located on waterside (WS). Concrete standpipe is located on the landside (LS) toe. (8-inch pipe authorized under Permit No. 15104, 1989-R. Romonda & C. Young, permit covers 4 pipe crossing removals and 3 new pipe installations; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17 [RD0017]; pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough) [Additional Reference(s): DWR Levee Log, 1981 and 2003]  
FS Date: 9/5/2018 10:03:00 AM

LM Start	<b>2.67</b>	Rating **	U	Issue No.	<b>110 (cont)</b>
LM End	<b>2.67</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_53329\_75736.jpg



View of WS, photo taken downstream looking at upstream pipe. Photo 1 of 2.

Photo 2 of 3 : UCIP\_SP\_2020\_53329\_75733.jpg



View of WS, photo taken upstream looking at first pipe. Photo 1 of 2.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>2.67</b>	Rating **	U	Issue No.	<b>110 (cont)</b>
LM End	<b>2.67</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.880923 °	37.880923 °	
			-121.331857 °	-121.331857 °	
DWR ID	278				



WS-pipe daylight just above rip rap near red pipe.

LM Start	2.87	Rating **	M	Issue No.	69
LM End	2.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.878043 °	37.878043 °
				-121.331606 °	-121.331606 °
DWR ID	DWR_RD0017_02_s_2020_69				
Comment Code					
AV : Abandoned vehicles					
Inspector Comment					



View of an abandoned vehicle on landside shoulder. Spring 2020

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	3.00	Rating **	M	Issue No.	111
LM End	3.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.876317 °	37.876317 °
				-121.331447 °	-121.331447 °
DWR ID	20				

**Comment Code**

**Inspector Comment**

DS\_ID:20  
FS\_ID:40655  
EP\_NO: 15106  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Burrow activity dession on landward slope. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23.  
FIELD\_STRUCT\_DESC: 10-inch steel irrigation pipe through levee, 3.27 feet below levee crown. Siphon breaker on landside (LS) shoulder. Pump on waterside (WS) slope, standpipe located 14 feet LS of levee toe. (10-inch installed and existing 12-inch pipe removed under Permit No. 15106, 1989-A.J. Rodgers Estate - C/O Opal Rodgers; pipe was installed during the levee work approved under Permit Number 15014, 1989-Reclamation District No. 17 [RD0017]) [Additional Reference(s): DWR Levee Logs, 1981, 2003]  
FS Date: 2/4/2010

LM Start	<b>3.00</b>	Rating **	M	Issue No.	<b>111 (cont)</b>
LM End	<b>3.00</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40655\_72050.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2020\_40655\_72051.jpg



Pump station and control panel located on waterward side.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>3.00</b>	Rating **	M	Issue No.	<b>111 (cont)</b>
LM End	<b>3.00</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.876317 °	37.876317 °	
			-121.331447 °	-121.331447 °	
DWR ID	20				

Photo 3 of 3 : UCIP\_SP\_2020\_40655\_72049.jpg



View of levee crown at crossing.

LM Start	<b>3.16</b>	Rating **	M	Issue No.	<b>112</b>
LM End	<b>3.16</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.874160 °	37.874160 °	
			-121.331761 °	-121.331761 °	
DWR ID	21				

**Comment Code**

**Inspector Comment**

DS\_ID:21  
FS\_ID:46005  
EP\_NO: 15310  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 05/19/15 Deteriorated section of pipe has been replaced. Need to contact KSN, engineering consulting representing LMA, to determine repair details and to obtain permit authorizing repair. 02/04/10 Pipe wall deteriorated. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23.  
FIELD\_STRUCT\_DESC: 10-inch steel drainage pipe through levee, 4-feet below crown. Siphon breaker on landside (LS) shoulder. Pump located on the LS approximately 45 feet from the levee toe. (10-inch pipe installed (per As-builts), 8-inch referenced in permit records, and existing 6-inch pipe removed (two existing pipes removed), work authorized under Permit No. 15310, 1989-O. Rodgers; 10-inch pipe was installed during the levee work approved under Permit No. 15014, 1989-Reclamation District No. 17 [RD0017]). [Additional Reference(s): DWR Levee Logs, 1981, 2003]  
FS Date: 5/19/2015

Photo 1 of 3 : UCIP\_SP\_2020\_46005\_74456.jpg



(2015) View of waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	3.16	Rating **	M	Issue No.	112 (cont)
LM End	3.16	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.874160 °	37.874160 °
				-121.331761 °	-121.331761 °
DWR ID	21				

Photo 2 of 3 : UCIP\_SP\_2020\_46005\_74458.jpg



(2015) Pipe section replaced.

LM Start	<b>3.16</b>	Rating **	M	Issue No.	<b>112 (cont)</b>
LM End	<b>3.16</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_46005\_74457.jpg



(2015) View of landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	3.44	Rating **	M	Issue No.	113
LM End	3.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.871000 °	37.871000 °
				-121.329000 °	-121.329000 °
DWR ID	25466				

**Comment Code**

**Inspector Comment**

DS\_ID:25466  
FS\_ID:50004  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 7/12/2016 Under Construction--Missing permit information and as-built drawings. New pipe installed 7/12/2016, as an emergency repair--owner in the process of obtaining permit from CVFPB. This pipe replaces DS\_ID 22, pipe was removed July 2016. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 16-inch steel irrigation pipe through the levee at an unknown depth below levee crown. Pump sits on the platform supported by steel piles located on the waterside (WS). Walkway extends from the pump platform to the WS. Positive closure device located on WS near walkway. (16-inch steel pipe installed under Permit No. XXXX, 2016 - XXXXX).  
FS Date: 7/12/2016

LM Start	<b>3.44</b>	Rating **	M	Issue No.	<b>113 (cont)</b>
LM End	<b>3.44</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_50004\_75870.jpg



View of exposed pipe on LS--photo taken during install progress.

Photo 2 of 3 : UCIP\_SP\_2020\_50004\_75871.jpg



View of WS--coated pipe, walkway, and removal of concrete stairway.  
Construction in progress.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>3.44</b>	Rating **	M	Issue No.	<b>113 (cont)</b>
LM End	<b>3.44</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.871000 °	37.871000 °	
			-121.329000 °	-121.329000 °	
DWR ID	25466				

Photo 3 of 3 : UCIP\_SP\_2020\_50004\_75872.jpg



View of levee crown--construction on LS and WS in progress.

LM Start	<b>3.47</b>	Rating **	M	Issue No.	<b>114</b>
LM End	<b>3.47</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.870623 °	37.870623 °	
			-121.328775 °	-121.328775 °	
DWR ID	23				

**Comment Code**

**Inspector Comment**

DS\_ID:23  
 FS\_ID:40658  
 EP\_NO: 4116  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition.  
 FIELD\_STRUCT\_DESC: 8.625-inch steel high pressure gas main through the levee. Invert of pipe is 3.9 feet below the crown. Location sign for gas pipeline crossing on waterside (WS) slope. PG&E contact information 510-779-4830 for crossing. (8.625-inch gas main authorized under Permit No. 4116, 1962-Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Logs, 1981, 2003]  
 FS Date: 2/4/2010

Photo 1 of 3 : UCIP\_SP\_2020\_40658\_72112.jpg



View of levee crown at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>3.47</b>	Rating **	M	Issue No.	<b>114 (cont)</b>
LM End	<b>3.47</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.870623 °	37.870623 °	
			-121.328775 °	-121.328775 °	
DWR ID	23				

Photo 2 of 3 : UCIP\_SP\_2020\_40658\_72111.jpg



View of landward side.

LM Start	<b>3.47</b>	Rating **	M	Issue No.	<b>114 (cont)</b>
LM End	<b>3.47</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40658\_72110.jpg



Marker visible on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	3.63	Rating **	M	Issue No.	115
LM End	3.63	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.868657 °	37.868657 °
				-121.327383 °	-121.327383 °
DWR ID	26				
Comment Code					
Inspector Comment					
DS_ID:26 FS_ID:40659 EP_NO: 15109 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Erosion around siphon breaker on landward side recommend investigating potential leak. FIELD_STRUCT_DESC: 12-inch steel drainage pipe through levee, 3 feet below levee crown. Siphon breaker on landside (LS) shoulder. Pump in irrigation ditch is located about 45 feet from LS toe. (12-inch pipe authorized under Permit No. 15109, 1990 - R. Muller) [Additional Reference(s): DWR Levee Logs, 1981, 2003] FS Date: 2/4/2010					

LM Start	<b>3.63</b>	Rating **	M	Issue No.	<b>115 (cont)</b>
LM End	<b>3.63</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40659\_72116.jpg



View of pipe section and pump station located on landward side.

Photo 2 of 3 : UCIP\_SP\_2020\_40659\_72115.jpg



Pump station locate on landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

## Reclamation District No. 0017 Mosssdale

Page 32 of 100

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>3.75</b>	Rating **	M	Issue No.	<b>116 (cont)</b>
LM End	<b>3.75</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.867000 °	37.867000 °	
			-121.327000 °	-121.327000 °	
DWR ID	25465				

Photo 2 of 3 : UCIP\_SP\_2020\_50005\_75864.jpg



View of LS, photo taken looking downstream.

LM Start	<b>3.75</b>	Rating **	M	Issue No.	<b>116 (cont)</b>
LM End	<b>3.75</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_50005\_75865.jpg



View of levee crown--levee section where pipe crosses is raised.

LM Start	3.83	Rating **	M	Issue No.	70
LM End	3.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.865846 °	37.865846 °
				-121.326771 °	-121.326771 °
DWR ID	DWR_RD0017_02_s_2020_70				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	4.20	Rating **	M	Issue No.	92
LM End	4.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.863740 °	37.863740 °
				-121.320629 °	-121.320629 °
DWR ID	DWR_RD0017_02_s_2019_92				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	4.21	Rating **	M	Issue No.	117	
LM End	4.21	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.863644 °	37.863644 °	
				-121.320435 °	-121.320435 °	
DWR ID	28					
Comment Code						
Inspector Comment						
DS_ID:28 FS_ID:43264 EP_NO: 15111 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 2/4/15--Olivia 2010 Records from KSN show this crossing was removed based on the RD17 As-Built Pipe Crossing Statining Reference, however when field verification was completed in this area a 2-inch pipe was found. This could be a different 2-inch pipe in nearby area. Need to coordinate with owner to determine permit issued for this crossing.2/4/10 Pipe is not continous. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. FIELD_STRUCT_DESC: *REMOVED* 2-inch pipeline through levee, 3.92 feet (invert depth) below levee crown. Siphon breaker on landside (LS) shoulder. Pump on waterside (WS) slope. Pipe extends beyond 10 feet of the LS toe. (existing 2-inch removed under Permit No. 15111, 1990 - R. Jocopetti; 2-inch pipe was removed during the levee work approved under Permit No. 15014, 1989 - Reclamation District 17 [RD0017]) [Additional Reference(s): DWR Levee Logs, 1981, 2003] FS Date: 2/4/2010						

Photo 1 of 3 : UCIP\_SP\_2020\_43264\_72125.jpg



View of levee crown at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>4.21</b>	Rating **	M	Issue No.	<b>117 (cont)</b>
LM End	<b>4.21</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.863644 °	37.863644 °	
			-121.320435 °	-121.320435 °	
DWR ID	28				

Photo 2 of 3 : UCIP\_SP\_2020\_43264\_72124.jpg



View of landward side.

LM Start	<b>4.21</b>	Rating **	M	Issue No.	<b>117 (cont)</b>
LM End	<b>4.21</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_43264\_72123.jpg



View of crossing on waterward side.

LM Start	4.23	Rating **	M	Issue No.	79
LM End	4.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.863494 °	37.862935 °
				-121.320158 °	-121.319798 °
DWR ID	DWR_RD0017_02_f_2017_79				
Comment Code					
FE : Fence					
Inspector Comment					
There is a metal fence within flood control right of way on landside slope.					

Photo 1 of 1 : SP\_2020\_RD0017\_304\_79\_20200228\_00003.jpg



View of metal fence within flood control right of way on landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	4.26	Rating **	M	Issue No.	118
LM End	4.26	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.863195 °	37.863195 °
				-121.319920 °	-121.319920 °
DWR ID	29				

**Comment Code**

**Inspector Comment**

DS\_ID:29  
FS\_ID:40662  
EP\_NO: 15112  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. Debris (pipe section) scattered on waterward side.  
FIELD\_STRUCT\_DESC: 10-inch steel irrigation pipe through levee, 3.29 feet below crown. Siphon breaker on landside (LS) shoulder. Pump on waterside (WS) berm, standpipe located 28 feet from the LS toe. Stairway located on both WS and LS slopes. (10-inch pipe installed and existing 10-inch pipe removed under Permit No. 15112, 1990 - C. Marshall; 10-inch pipe was installed during the levee work approved under Permit No. 15014, 1989 - Reclamation District 17 [RD0017]) [Additional Reference(s): DWR Levee Logs, 1981 and 2003]  
FS Date: 2/4/2010

LM Start	<b>4.26</b>	Rating **	M	Issue No.	<b>118 (cont)</b>
LM End	<b>4.26</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40662\_72130.jpg



View of landward side.

Photo 2 of 3 : UCIP\_SP\_2020\_40662\_72128.jpg



View of waterward side--pump house, walkway, pipe, and abandoned pipe section.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>4.26</b>	Rating **	M	Issue No.	<b>118 (cont)</b>
LM End	<b>4.26</b>	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.863195 °	37.863195 °
				-121.319920 °	-121.319920 °
DWR ID	29				

Photo 3 of 3 : UCIP\_SP\_2020\_40662\_72134.jpg



Pipe through pump house located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	4.80	Rating **	U	Issue No.	119
LM End	4.80	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.856998 °	37.856998 °
				-121.318796 °	-121.318796 °
DWR ID	33				

**Comment Code**

**Inspector Comment**

DS\_ID:33

FS\_ID:56149

EP\_NO: 15116

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 2/10/2020 DSID 33 was issued a permit on October 18, 2019 (Permit # 15116-1) as a result of ENF# 15428. Work has not commenced but we believe it will after the flood season (D. Sanoski - DWR UCIP, per D. Ismailyan - CVFPB).9/5/2018 WS slope severe erosion appears to have been fixed somewhat, however, some erosion still present. Massive LS slippage and sink hole present. Notified LMA Engineer, DWR Inspector, and CVFPB Enforcement. Recommend monitoring of site through flood season, and remains Urgent until full inspection of site (D. Sanoski - DWR UCIP).12/01/2017 Inspection update is based on supporting documentation provided by KSN Inc, R. Toy, on November 18, 2016. Levee slope repair was performed on the LS slope area. Crossing remains Urgent--internal erosion visible from WS where pipe daylights has not been addressed. Recommend internal inspection of pipe through the levee to determine pipe condition. (DWR UCIP - o. magana) 7/12/2016 Same as last inspection--internal erosion on WS and LS slope slipping with visible head scarp. Internal erosion visible from WS where pipe daylights. LS slope slipping with visible head scarp approximately 6-inches. Need to coordinate with owner to address issue. Owner will need to work with DWR Inspector and CVFPB to comply with Title 23 requirements. Recommend internal integrity inspection of crossing to determine pipe condition through levee. (DWR UCIP - omagana)5/19/2015 Signs of internal erosion visible on waterward side where pipe daylights. Slope slumping visible on landward side where previous levee damage was present. Need to contact owner and KSN, LMA engineering firm, to coordinate potential issues with pipe. (DWR UCIP - omagana)2/04/2010 Pipe failure--internal erosion visible on waterward and landward side. Recommend LMA superintendent notify owner to stop using crossing to avoid further damage to levee slope. Owner will need to coordinate with DWR Inspector and CVFPB to address pipe failure per Title 23 requirements. (DWR UCIP - omagana)

FIELD\_STRUCT\_DESC: 14-inch steel irrigation pipe through levee, 3.66-feet below the levee crown. Siphon breaker is located on the waterside (WS) shoulder. Also visible on the WS is the pump, the platform supported by steel piles in channel, a wooden walkway which extends from pump platform to WS slope, a concrete stairway which extends from walkway to WS shoulder. A double side approach ramp is located on the landside (LS) slope. (14-inch installed and existing 12-inch pipe removed under Permit No. 15116, 1990 - Rio Blanco Ranch, Inc.; 14-inch pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both

Photo 1 of 3 : UCIP\_SP\_2020\_56149\_75723.jpg



View of WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014, 1989 - Reclamation District [RD0017] [Additional Reference(s): DWR Levee Log, 1981 and 2003] FS Date: 9/5/2018 10:12:00 AM

LM Start	<b>4.80</b>	Rating **	U	Issue No.	<b>119 (cont)</b>
LM End	<b>4.80</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2020\_56149\_75724.jpg



Internal erosion still visible on WS.

LM Start	<b>4.80</b>	Rating **	U	Issue No.	<b>119 (cont)</b>
LM End	<b>4.80</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56149\_75720.jpg



View of LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	4.95	Rating **	M	Issue No.	120
LM End	4.95	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.855370 °	37.855370 °
				-121.319870 °	-121.319870 °
DWR ID	34				

**Comment Code**

**Inspector Comment**

DS\_ID:34  
 FS\_ID:52587  
 EP\_NO: 15117  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: 12/01/2017 Supporting documentation (field report) was received from KSN, Inc. R. Toy, addressing the repair of the leaking pipe and levee slope at this location. Compaction tests associated with the repair have not been received -- need to coordinate with CVFPB, LMA, and DWR Inspector. (DWR UCIP - O. Magana)07/12/2016 Crossing has been downgraded from Urgent to Non-Urgent--LS levee slope repaired. Levee slope was disturbed to repair leaky pipe--LS splice approximately 20-30 feet off the LS toe. Need to contact owner to determine if any documentation is available to support repair extent or internal integrity inspection of pipe through levee. (DWR UCIP - omagana)02/04/2010 Section of landward slope exposed--Need to contact owner to address cut on levee and determine status of crossing. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. (DWR UCIP - omagana)  
 FIELD\_STRUCT\_DESC: 10-inch steel irrigation pipe through levee, 3.43-feet below the levee crown. Siphon breaker is located on the waterside (WS) shoulder. Pump is located approximately 100 feet from the landside (LS) toe. Ramp is located on the LS slope. (10-inch installed and existing 8-inch pipe removed under Permit No. 15117, 1989 - Rio Blanco Ranch, Inc.; 10-inch pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014, 1989 - Reclamation District [RD0017]) [Additional Reference(s): DWR Levee Log, 1981 and 2003]  
 FS Date: 12/1/2017 9:41:00 AM

Photo 1 of 3 : UCIP\_SP\_2020\_52587\_72215.jpg



View of LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	4.95	Rating **	M	Issue No.	120 (cont)
LM End	4.95	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.855370 °	37.855370 °
				-121.319870 °	-121.319870 °
DWR ID	34				

Photo 2 of 3 : UCIP\_SP\_2020\_52587\_72214.jpg



Section of levee slope exposed on LS.

LM Start	<b>4.95</b>	Rating **	M	Issue No.	<b>120 (cont)</b>
LM End	<b>4.95</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_52587\_72213.jpg



Pump station located on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	5.07	Rating **	M	Issue No.	121
LM End	5.07	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.853613 °	37.853613 °
				-121.319666 °	-121.319666 °
DWR ID	35				

**Comment Code**

**Inspector Comment**

DS\_ID:35  
FS\_ID:45998  
EP\_NO: 15118  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 05/19/2015 Erosion is still present on waterward side--wet soil along pipe alignment (where pipe section is exposed). Burrow activity is also present at this location. Recommend contacting owner to address burrow activity. 02/04/2010 Erosion visible on waterward side visible at pipe daylight. Need to contact owner to address potential pipe failure. Need to determine status of crossing.  
FIELD\_STRUCT\_DESC: 14-inch steel irrigation pipe through levee, 3.32 feet below levee crown. Siphon breaker on landside (LS) shoulder. Pump on platform in channel, wooden walkway extends from pump platform to waterside (WS) slope, concrete stairway extends from walkway to WS shoulder and a standpipe is located 2 feet from the LS toe. (14-inch pipe installed and existing 12-inch pipe removed under Permit No. 15118, 1989 - L. Matlock) [Additional Reference(s): DWR Levee Logs, 1981 and 2003]  
FS Date: 5/19/2015

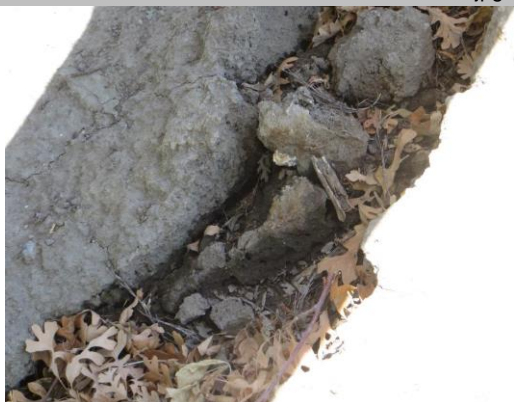
LM Start	<b>5.07</b>	Rating **	M	Issue No.	<b>121 (cont)</b>
LM End	<b>5.07</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_45998\_74483.jpg



(2015) View of waterward side--erosion at pipe daylight.

Photo 2 of 3 : UCIP\_SP\_2020\_45998\_74485.jpg



(2015) Wet ground along pipe alignment on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

## Reclamation District No. 0017 Mosssdale

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>5.41</b>	Rating **	M	Issue No.	<b>122 (cont)</b>
LM End	<b>5.41</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.851319 °	37.851319 °	
			-121.321336 °	-121.321336 °	
DWR ID	36				

Photo 2 of 3 : UCIP\_SP\_2020\_40669\_72238.jpg



View of waterward side.

LM Start	<b>5.41</b>	Rating **	M	Issue No.	<b>122 (cont)</b>
LM End	<b>5.41</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40669\_72237.jpg



Distribution box located on landward side.

LM Start	5.49	Rating **	M	Issue No.	71
LM End	5.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.850507 °	37.850507 °
				-121.320397 °	-121.320397 °
DWR ID	DWR_RD0017_02_s_2020_71				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	6.14	Rating **	M	Issue No.	123
LM End	6.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.844392 °	37.844392 °
				-121.320753 °	-121.320753 °
DWR ID	38				

**Comment Code**

**Inspector Comment**

DS\_ID:38  
FS\_ID:40672  
EP\_NO: 15121  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Pipe section at waterward toe is missing wall. Need to coordinate with owner to determine integrity of pipe section through levee. This crossing is a good candidate for video inspection to determine internal condition of pipe.  
FIELD\_STRUCT\_DESC: 10-inch steel drainage through the levee, 4 feet below crown. (10-inch pipe authorized under Permit No. 15121, 1989 - R. Muller, additional work also includes removal of 12-inch and two 9-inch pipes at different locations and installation of a 12-inch pipe; 10-inch pipe was installed during the levee work approved under Permit No. 15014, 1989-Reclamation District [RD0017]) [Additional Reference(s): DWR Levee Logs, 1981 and 2003]  
FS Date: 2/4/2010

LM Start	<b>6.14</b>	Rating **	M	Issue No.	<b>123 (cont)</b>
LM End	<b>6.14</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40672\_72270.jpg



View of pipe section on waterward side.

Photo 2 of 3 : UCIP\_SP\_2020\_40672\_72267.jpg



View of waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>6.14</b>	Rating **	M	Issue No.	<b>123 (cont)</b>
LM End	<b>6.14</b>	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.844392 °	37.844392 °
				-121.320753 °	-121.320753 °
DWR ID	38				

Photo 3 of 3 : UCIP\_SP\_2020\_40672\_72271.jpg



Pipe section inside wall has completely corroded--wall missing.

LM Start	6.50	Rating **	C	Issue No.	93
LM End	6.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.841859 °	37.841859 °
				-121.316240 °	-121.316240 °
DWR ID	DWR_RD0017_02_s_2019_93				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Rills on landside slope caused by surface run off need to be repaired.					

No Photos

LM Start	6.72	Rating **	C	Issue No.	94
LM End	6.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.839024 °	37.839024 °
				-121.316469 °	-121.316469 °
DWR ID	DWR_RD0017_02_s_2019_94				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	6.79	Rating **	M	Issue No.	124
LM End	6.79	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.837995 °	37.837995 °
				-121.316566 °	-121.316566 °
DWR ID	40				

**Comment Code**

**Inspector Comment**

DS\_ID:40  
FS\_ID:40677  
EP\_NO: 15123  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Landowner mentioned power line was stolen crossing was non-functional during inspection. Potential erosion underneath walkway--need to confirm loose soil. Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.  
FIELD\_STRUCT\_DESC: 16-inch steel irrigation pipe through levee, 2.70 feet below the levee crown. Siphon breaker on waterside (WS) shoulder. Ramp on platform in channel, walkway from pump platform to WS slope, standpipe located at landside (LS) berm toe. (16-inch pipe installed and authorized under Permit No. 15123-1989, also includes removal of two existing pipes, 8-inch and 10-inch) [Additional Reference(s): DWR Levee Logs, 1981 and 2003]  
FS Date: 2/4/2010

LM Start	<b>6.79</b>	Rating **	M	Issue No.	<b>124 (cont)</b>
LM End	<b>6.79</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40677\_72289.jpg



View of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2020\_40677\_72294.jpg



Siphon breaker located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>6.79</b>	Rating **	M	Issue No.	<b>124 (cont)</b>
LM End	<b>6.79</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.837995 °	37.837995 °	
			-121.316566 °	-121.316566 °	
DWR ID	40				

Photo 3 of 3 : UCIP\_SP\_2020\_40677\_72292.jpg



View of waterward side.

LM Start	<b>7.17</b>	Rating **	M	Issue No.	<b>125</b>
LM End	<b>7.17</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.833426 °	37.833426 °	
			-121.313023 °	-121.313023 °	
DWR ID	42				

**Comment Code**

**Inspector Comment**

DS\_ID:42  
FS\_ID:40679  
EP\_NO: 15077  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Surface erosion on waterward slope. Abandoned pipe section left on waterward slope. Need to contact owner to obtain additional information about crossing.  
FIELD\_STRUCT\_DESC: 12-inch steel irrigation pipe through levee. Invert of pipe 3.67 feet below levee crown. Siphon breaker on landside (LS) shoulder. Pump on platform in channel, walkway from pump platform to waterside (WS) shoulder. Standpipe located 15 feet from the LS toe. (12-inch pipe authorized under Permit No. 15077, 1989 - J. P. Leal, existing 12-inch pipe removed) [Additional Reference(s): DWR Levee Logs, 1981 and 2003, 12-inch pipe]  
FS Date: 2/4/2010

Photo 1 of 3 : UCIP\_SP\_2020\_40679\_72307.jpg



Overview of levee crown at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	7.17	Rating **	M	Issue No.	125 (cont)
LM End	7.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.833426 °	37.833426 °
				-121.313023 °	-121.313023 °
DWR ID	42				

Photo 2 of 3 : UCIP\_SP\_2020\_40679\_72306.jpg



CMP riser located on landward slope.

LM Start	<b>7.17</b>	Rating **	M	Issue No.	<b>125 (cont)</b>
LM End	<b>7.17</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40679\_72305.jpg



Standpipe visible on landward toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	7.20	Rating **	M	Issue No.	126	
LM End	7.20	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.833088 °	37.833088 °	
				-121.312676 °	-121.312676 °	
DWR ID	43					
Comment Code						
Inspector Comment						
DS_ID:43 FS_ID:40680 EP_NO: 15078 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing is non-functional recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 4-inch irrigation pipe of unknown material through levee, 2.89 feet below levee crown. Siphon breaker on landside (LS) shoulder. Pump on waterside (WS) berm. (4-inch pipe authorized under Permit No. 15078, 1989 - S. and F. Aurelio, existing 4-inch pipe removed) [Additional Reference(s): DWR Levee Logs, 1981 and 2003] FS Date: 2/4/2010						

LM Start	<b>7.20</b>	Rating **	M	Issue No.	<b>126 (cont)</b>
LM End	<b>7.20</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40680\_72314.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2020\_40680\_72313.jpg



Abandoned boat protecting pump station located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

## Reclamation District No. 0017 Mosssdale

Motor located on waterward slope.

View of waterward side.

UCIP Comments: If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.

FIELD\_STRUCT\_DESC: 14-inch steel irrigation pipe through levee, 1.17 feet below levee crown. Siphon breaker on waterside (WS) shoulder. Pump on platform in channel, walkway from pump platform to the top of the riverbank, standpipe located 12 feet from landside (LS) toe. (14-inch pipe installed under Permit No. 15079-1990 - San Joaquin County Parks and Joe P. Aven, authorized work also include installation of 10-inch pipe in general area and the removal of two existing pipes, 10-inch pipe and 6-inch pipe) [Additional Reference(s): DWR Levee Logs, 1981 and 2003]

FS Date: 2/4/2010

Page 51 of 100

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>7.43</b>	Rating **	M	Issue No.	<b>127 (cont)</b>
LM End	<b>7.43</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.830158 °	37.830158 °	
			-121.310915 °	-121.310915 °	
DWR ID	44				

Photo 2 of 3 : UCIP\_SP\_2020\_40681\_72328.jpg



Pipe, pump, and platform located on waterward side.

LM Start	<b>7.43</b>	Rating **	M	Issue No.	<b>127 (cont)</b>
LM End	<b>7.43</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40681\_72330.jpg



Pump station fenced off on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>7.44</b>	Rating **	M	Issue No.	<b>128</b>
LM End	<b>7.44</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.830115 °	37.830115 °	
			-121.310908 °	-121.310908 °	
DWR ID	99				

**Comment Code**

**Inspector Comment**

DS\_ID:99  
FS\_ID:40682  
EP\_NO: 17643  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Need to coordinate with owner to determine when the other 3 crossings will become online.  
FIELD\_STRUCT\_DESC: [Stonebridge Pump Station/Dos Reis Road Outfall Structure] 30-inch and 36-inch combination cement motar lined and coated steel drainage pipe through the levee, 2-feet below the levee crown. Concrete headwall on waterside (WS) toe and a 36-inch tidal flex valve on outlet of pipe. 36-inch pipe section starts at WS headwall and is reduced with a 30-inch pipe on WS. The 30-inch pipe continues through from WS to LS levee. Structure was designed for 5 crossings however only 1 crossing is active (30-inch pipe and 36-inch combination pipe through the levee authorized under Permit No. 17643, 2005 - City of Lathrop, structure can accommodate five 36-inch pipes discharge pipes - only one 36-inch pipe active).  
FS Date: 2/4/2010

LM Start	<b>7.44</b>	Rating **	M	Issue No.	<b>128 (cont)</b>
LM End	<b>7.44</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40682\_72322.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2020\_40682\_72321.jpg



Relief valve located on landward shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>7.44</b>	Rating **	M	Issue No.	<b>128 (cont)</b>
LM End	<b>7.44</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.830115 °	37.830115 °	
			-121.310908 °	-121.310908 °	
DWR ID	99				

Photo 3 of 3 : UCIP\_SP\_2020\_40682\_72320.jpg



View of waterward side.

LM Start	<b>7.45</b>	Rating **	M	Issue No.	<b>129</b>
LM End	<b>7.45</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.829922 °	37.829922 °	
			-121.310865 °	-121.310865 °	
DWR ID	284				

**Comment Code**

**Inspector Comment**

DS\_ID:284  
 FS\_ID:40683  
 EP\_NO: 15079  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Potential leak at standpipe--unable to confirm if crossing is operable. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.  
 FIELD\_STRUCT\_DESC: 2 of 2. 10 inch pipe also referenced as 478+22, old 6 inch pipe was removed per encroachment recordation.  
 FS Date: 2/4/2010

Photo 1 of 3 : UCIP\_SP\_2020\_40683\_72333.jpg



Overview of levee crown at crossing.

**\* Location**

LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	7.45	Rating **	M	Issue No.	129 (cont)
LM End	7.45	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.829922 °	37.829922 °
				-121.310865 °	-121.310865 °
DWR ID	284				

Photo 2 of 3 : UCIP\_SP\_2020\_40683\_72332.jpg



CMP riser located on waterward shoulder.

LM Start	<b>7.45</b>	Rating **	M	Issue No.	<b>129 (cont)</b>
LM End	<b>7.45</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40683\_72335.jpg



Pipe visible on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	7.57	Rating **	M	Issue No.	130	
LM End	7.57	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.828258 °	37.828258 °	
				-121.310003 °	-121.310003 °	
DWR ID	97					
Comment Code						
Inspector Comment						
DS_ID:97						
FS_ID:40684						
EP_NO: 15080						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears no longer in use. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.						
FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 4.43-feet below crown. Pump on waterside (WS) slope, siphon breaker on WS shoulder, and standpipe on landside (LS) toe. (7-inch pipe installed and was authorized under Permit No. 15080, 1989 - J. P. Aven, existing 6-inch pipe removed).						
FS Date: 2/4/2010						

Photo 1 of 3 : UCIP\_SP\_2020\_40684\_72340.jpg



Overview of levee crown at crossing.

LM Start	<b>7.57</b>	Rating **	M	Issue No.	<b>130 (cont)</b>
LM End	<b>7.57</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2020\_40684\_72342.jpg



View of waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	7.57	Rating **	M	Issue No.	130 (cont)
LM End	7.57	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.828258 °	37.828258 °
				-121.310003 °	-121.310003 °
DWR ID	97				

Photo 3 of 3 : UCIP\_SP\_2020\_40684\_72338.jpg



Pump and pipe located on waterward slope.

LM Start	7.58	Rating **	M	Issue No.	25
LM End	7.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.828095 °	37.827920 °
				-121.309945 °	-121.309847 °
DWR ID	DWR_RD0017_02_s_2012_25				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	7.71	Rating **	M	Issue No.	131	
LM End	7.71	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.826333 °	37.826333 °	
				-121.309495 °	-121.309495 °	
DWR ID	98					
Comment Code						
Inspector Comment						
DS_ID:98 FS_ID:40685 EP_NO: 15081 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Erosion present on waterward toe underneath piles. Need to coordinate with owner to address issue on waterward side and to determine status of crossing. FIELD_STRUCT_DESC: 16-inch asphalt coated and wrapped steel irrigation pipe through the levee, 2.6-feet below the crown. Siphon breaker located on landside (LS). Stand pipe located at LS toe. Pump on Platform at waterside (WS) toe. (16-inch pipe installed under Permit No. 15081, 1989 - I. N. Robinson, Jr., existing 14-inch pipe removed) FS Date: 2/4/2010						

LM Start	<b>7.71</b>	Rating **	M	Issue No.	<b>131 (cont)</b>
LM End	<b>7.71</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40685\_72351.jpg



Overview of levee crown at pipe crossing.

Photo 2 of 3 : UCIP\_SP\_2020\_40685\_72350.jpg



Pipe daylight on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>7.71</b>	Rating **	M	Issue No.	<b>131 (cont)</b>
LM End	<b>7.71</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.826333 °	37.826333 °	
			-121.309495 °	-121.309495 °	
DWR ID	98				

Photo 3 of 3 : UCIP\_SP\_2020\_40685\_72348.jpg



Pump station located on platform located on waterward side.

LM Start	<b>7.73</b>	Rating **	M	Issue No.	<b>132</b>
LM End	<b>7.73</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.826031 °	37.826031 °	
			-121.309569 °	-121.309569 °	
DWR ID	804				

**Comment Code**

**Inspector Comment**

DS\_ID:804  
 FS\_ID:40686  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Indicator Found  
 UCIP Comments: Unable to find any appurtenances need to coordinate with owner to obtain additional information about crossing. Standpipe appears abandoned. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.  
 FIELD\_STRUCT\_DESC: Standpipe located on levee crown.  
 FS Date: 2/4/2010

Photo 1 of 2 : UCIP\_SP\_2020\_40686\_72353.jpg



Standpipe located on levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>7.75</b>	Rating **	M	Issue No.	<b>133 (cont)</b>
LM End	<b>7.75</b>	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.825857 °	37.825857 °
				-121.309574 °	-121.309574 °
DWR ID	100				

Photo 2 of 3 : UCIP\_SP\_2020\_40687\_72356.jpg



View of waterward side--no pumps present anymore.

LM Start	<b>7.75</b>	Rating **	M	Issue No.	<b>133 (cont)</b>
LM End	<b>7.75</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40687\_72358.jpg



Conduit lines present on waterward side--no connection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	7.75	Rating **	M	Issue No.	134
LM End	7.75	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.825828 °	37.825828 °
				-121.309569 °	-121.309569 °
DWR ID	288				

**Comment Code**

**Inspector Comment**

DS\_ID:288  
FS\_ID:40688  
EP\_NO: 15082  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Pump was removed and no power connection visible. Crossing appears abandoned. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.  
FIELD\_STRUCT\_DESC: 16- inch asphalt coated and wrapped steel irrigation pipe through levee, 2.6-feet below the crown. Pump missing from platform on waterside (WS). Siphon breaker inside 24-inch corrugated metal pipe (CMP) riser on landside (LS) shoulder. 1.5-inch galvanized iron electrical conduit at same location. (16-inch pipe installed under Permit No. 15082, 1989 - I. N. Robinson, Jr., also authorized under permit two existing 14-inch pipes removed and installation of 20-inch pipe in general area)  
FS Date: 2/4/2010

LM Start	<b>7.75</b>	Rating **	M	Issue No.	<b>134 (cont)</b>
LM End	<b>7.75</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40688\_72361.jpg



View of pipe on waterward side.

Photo 2 of 3 : UCIP\_SP\_2020\_40688\_72360.jpg



View of landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	7.75	Rating **	M	Issue No.	134 (cont)
LM End	7.75	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.825828 °	37.825828 °
				-121.309569 °	-121.309569 °
DWR ID	288				

Photo 3 of 3 : UCIP\_SP\_2020\_40688\_72359.jpg



Conduits visible on waterward side--no connection.

LM Start	7.89	Rating **	M	Issue No.	135
LM End	7.89	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.823987 °	37.823987 °
				-121.309841 °	-121.309841 °
DWR ID	805				

**Comment Code**

**Inspector Comment**

DS\_ID:805  
 FS\_ID:40689  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Indicator Found  
 UCIP Comments: Only siphon breakers were found on landward shoulder no other appurtenances were found. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.  
 FIELD\_STRUCT\_DESC: Siphon breaker located on landward shoulder.  
 FS Date: 2/4/2010

Photo 1 of 3 : UCIP\_SP\_2020\_40689\_72367.jpg



View of levee crown at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>7.89</b>	Rating **	M	Issue No.	<b>135 (cont)</b>
LM End	<b>7.89</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.823987 °	37.823987 °	
			-121.309841 °	-121.309841 °	
DWR ID	805				

Photo 2 of 3 : UCIP\_SP\_2020\_40689\_72366.jpg



View of landward side.

LM Start	<b>7.89</b>	Rating **	M	Issue No.	<b>135 (cont)</b>
LM End	<b>7.89</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40689\_72369.jpg



CMP riser located on landward side.

LM Start	8.04	Rating **	M	Issue No.	84
LM End	8.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.824344 °	37.824344 °
				-121.312455 °	-121.312455 °
DWR ID	DWR_RD0017_02_f_2017_84				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	---	--	---	--	--	--

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	8.99	Rating **	U	Issue No.	136
LM End	8.99	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818123 °	37.818123 °
				-121.314272 °	-121.314272 °
DWR ID	285				

**Comment Code**

**Inspector Comment**

DS\_ID:285  
FS\_ID:53331  
EP\_NO: 15083  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 9/5/2018 Same as last inspection; WS pipe section completely corroded at section end. Crossing remains Urgent (D. Sanoski - DWR UCIP). 7/12/2016 Same as last inspection--WS pipe section deteriorated. Per Rick Toy, KSN-District Engineer, this crossing is currently owned by the City of Lathrop. Need to coordinate with the City of Lathrop to submit name change to the CVFPB and for the City to provide future use for this crossing. Recommend internal integrity inspection of section of the pipe through the levee. (DWR UCIP - omagana)5/21/2015 Pipe is still in same condition. Need to contact KSN, LMA engineering firm, to determine update on crossing. (DWR UCIP - omagana)2/04/2010 Pipe wall has corroded through--wall missing from pipe section located on waterward side. Recommend investigating the pipe integrity through levee section. Damage to pipe has eroded the levee slope on waterward side. Recommend LMA superintendent contact owner to stop using crossing and coordinate with CVFPB to address pipe leak. Owner will need to coordinate with DWR inspector and CVFPB. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 12-inch steel irrigation pipe through levee, 2.69 feet below crown. Siphon breaker is located on the waterside (WS) shoulder. Pump is located in the irrigation ditch approximately 50 feet from landside (LS) toe. (12-inch pipe authorized under Permit No. 15083, 1989 - I. N. Robinson, Jr.; 12-inch pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014, 1989 - Reclamation District 17 [RD0017]) [Additional Reference(s): DWR Levee Log, 1981 and 2003]  
FS Date: 9/5/2018 10:25:00 AM

Photo 1 of 3 : UCIP\_SP\_2020\_53331\_75741.jpg



View of WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	8.99	Rating **	U	Issue No.	136 (cont)	
LM End	8.99	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.818123 °	37.818123 °	
				-121.314272 °	-121.314272 °	
DWR ID	285					

Photo 2 of 3 : UCIP\_SP\_2020\_53331\_75740.jpg



WS-pipe still damage, pipe wall section missing.

LM Start	<b>8.99</b>	Rating **	U	Issue No.	<b>136 (cont)</b>
LM End	<b>8.99</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_53331\_75738.jpg



WS shoulder--protective housing units for siphon breakers.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	9.09	Rating **	M	Issue No.	137
LM End	9.09	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.816767 °	37.816767 °
				-121.314681 °	-121.314681 °
DWR ID	48				

**Comment Code**

**Inspector Comment**

DS\_ID:48  
FS\_ID:45453  
EP\_NO: 15084  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: Need to contact owner to determine disposition of pipe. No record of removal has been found and status of crossing needs to be determined.  
FIELD\_STRUCT\_DESC: 8-inch steel irrigation pipe through levee, 2.80 feet below levee crown. (Siphon breaker on landside (LS) shoulder. Slant pump on waterside (WS) slope, concrete stairway from pump to WS shoulder, standpipe located 20 feet from the LS toe): Not found. Only indicator is a 1.5-inch PVC electrical conduit visible on WS slope 6-feet below the crown. (8-inch pipe authorized under Permit No. 15084, 1989 - F. G. and B. J. Terry, existing 8-inch pipe removed) [Additional Reference(s): DWR Levee Logs, 1981 and 2003]  
FS Date: 5/21/2015

LM Start	<b>9.09</b>	Rating **	M	Issue No.	<b>137 (cont)</b>
LM End	<b>9.09</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_SP\_2020\_45453\_74112.jpg



Electrical conduit only appurtanance found on WS slope.

Photo 2 of 2 : UCIP\_SP\_2020\_45453\_74113.jpg



1.5-inch electrical conduit only appurtanance still visible on WS slope.

\* **Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* **Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ **Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	9.24	Rating **	C	Issue No.	85
LM End	9.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.815269 °	37.815269 °
				-121.316805 °	-121.316805 °
DWR ID	DWR_RD0017_02_f_2017_85				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	9.29	Rating **	C	Issue No.	9
LM End	9.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.815270 °	37.815270 °
				-121.317692 °	-121.317692 °
DWR ID	DWR_RD0017_02_s_2012_9				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry removal has been mitigated.					

No Photos

LM Start	9.67	Rating **	M	Issue No.	96
LM End	9.67	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.812380 °	37.812380 °
				-121.316942 °	-121.316942 °
DWR ID	DWR_RD0017_02_s_2019_96				
Comment Code					
DE : Debris					
Inspector Comment					
Farmer is storing drain pipes on landside toe and easement.					

Photo 1 of 1 : SP\_2020\_RD0017\_304\_96\_20200228\_00005.jpg



View of pipes on landside toe. (Spring 2019)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	10.64	Rating **	C	Issue No.	80
LM End	10.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.805787 °	37.805787 °
				-121.322022 °	-121.322022 °
DWR ID	DWR_RD0017_02_s_2015_80				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry removal has been mitigated.					

No Photos

LM Start	11.31	Rating **	M	Issue No.	138
LM End	11.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.803410 °	37.803410 °
				-121.312031 °	-121.312031 °
DWR ID	51				
Comment Code					
Inspector Comment					
DS_ID:51 FS_ID:40695 EP_NO: 15055 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe is not connected on waterward side. Crossing is non-functional recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through levee, 2.77 feet below levee crown. Siphon breaker on landside (LS) shoulder. Slant pump on waterside (WS) slope, standpipe located 11 feet from the LS toe. (16-inch pipe authorized under Permit No. 15055, 1989 - F. G. and B. J. Terry, existing 14-inch pipe removed) [Additional Reference(s): DWR Levee Logs, 1981 and 2003] FS Date: 2/4/2010					

Photo 1 of 3 : UCIP\_SP\_2020\_40695\_72420.jpg



Overview of levee crown at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	11.31	Rating **	M	Issue No.	138 (cont)
LM End	11.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.803410 °	37.803410 °
				-121.312031 °	-121.312031 °
DWR ID	51				

Photo 2 of 3 : UCIP\_SP\_2020\_40695\_72418.jpg



View of waterward side.

LM Start	<b>11.31</b>	Rating **	M	Issue No.	<b>138 (cont)</b>
LM End	<b>11.31</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40695\_72421.jpg



Slant pump located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	11.35	Rating **	M	Issue No.	139	
LM End	11.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.802921 °	37.802921 °	
				-121.311947 °	-121.311947 °	
DWR ID	103					
Comment Code						
Inspector Comment						
DS_ID:103 FS_ID:40696 EP_NO: 17792 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion on waterward slope--Need to contact owner. FIELD_STRUCT_DESC: [Mossdale Outfall] 1 of 6. 30-inch steel drainage pipe through levee at unknown depth. Structure is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landside (LS) shoulder on top of concrete pad. Concrete headwall and gates located on waterside (WS). (six 30-inch pipes authorized under Permit No. 17792, 2005 - City of Lathrop) FS Date: 2/4/2010						

LM Start	<b>11.35</b>	Rating **	M	Issue No.	<b>139 (cont)</b>
LM End	<b>11.35</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40696\_72440.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2020\_40696\_72448.jpg



View of waterward side geotech fabric damage along slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

# Reclamation District No. 0017 Mosssdale

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	11.35	Rating **	M	Issue No.	140 (cont)
LM End	11.35	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.802904 °	37.802904 °
				-121.311946 °	-121.311946 °
DWR ID	473				

Photo 2 of 3 : UCIP\_SP\_2020\_40697\_72453.jpg



Geotech fabric damage along waterward berm.

LM Start	11.35	Rating **	M	Issue No.	140 (cont)
LM End	11.35	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40697\_72450.jpg



Surface erosion visible on waterward berm edge.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	11.35	Rating **	M	Issue No.	141	
LM End	11.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.802889 °	37.802889 °	
				-121.311947 °	-121.311947 °	
DWR ID	474					
Comment Code						
Inspector Comment						
DS_ID:474 FS_ID:40698 EP_NO: 17792 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion on waterward slope--need to contact owner. FIELD_STRUCT_DESC: [Mossdale Outfall] 3 of 6. 30-inch steel drainage pipe through levee at unknown depth. Structure is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landside (LS) shoulder on top of concrete pad. Concrete headwall and gates located on waterside (WS). (six 30-inch pipes authorized under Permit No. 17792, 2005 - City of Lathrop) FS Date: 2/4/2010						

LM Start	<b>11.35</b>	Rating **	M	Issue No.	<b>141 (cont)</b>
LM End	<b>11.35</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40698\_72475.jpg



Overview of levee crown at crossings.

Photo 2 of 3 : UCIP\_SP\_2020\_40698\_72477.jpg



View of waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	11.35	Rating **	M	Issue No.	142 (cont)
LM End	11.35	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.802869 °	37.802869 °	
			-121.311948 °	-121.311948 °	
DWR ID	475				

Photo 2 of 3 : UCIP\_SP\_2020\_40699\_72457.jpg



View of landward side.

LM Start	11.35	Rating **	M	Issue No.	142 (cont)
LM End	11.35	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40699\_72456.jpg



Overview of levee crown at crossings.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	11.35	Rating **	M	Issue No.	143	
LM End	11.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.802854 °	37.802854 °	
				-121.311948 °	-121.311948 °	
DWR ID	476					
Comment Code						
Inspector Comment						
DS_ID:476 FS_ID:40700 EP_NO: 17792 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion on waterward slope--need to contact owner. FIELD_STRUCT_DESC: [Mossdale Outfall] 5 of 6. 30-inch steel drainage pipe through levee at unknown depth. Structure is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landside (LS) shoulder on top of concrete pad. Concrete headwall and gates located on waterside (WS). (six 30-inch pipes authorized under Permit No. 17792, 2005 - City of Lathrop) FS Date: 2/4/2010						

LM Start	11.35	Rating **	M	Issue No.	143 (cont)
LM End	11.35	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40700\_72462.jpg



Overview of levee crown at crossings.

Photo 2 of 3 : UCIP\_SP\_2020\_40700\_72467.jpg



View of waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>11.35</b>	Rating **	M	Issue No.	<b>143 (cont)</b>
LM End	<b>11.35</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.802854 °	37.802854 °	
			-121.311948 °	-121.311948 °	
DWR ID	476				

Photo 3 of 3 : UCIP\_SP\_2020\_40700\_72465.jpg



Surface erosion on waterward side.

LM Start	<b>11.35</b>	Rating **	M	Issue No.	<b>144</b>
LM End	<b>11.35</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.802837 °	37.802837 °	
			-121.311949 °	-121.311949 °	
DWR ID	477				

**Comment Code**

**Inspector Comment**

DS\_ID:477  
 FS\_ID:40701  
 EP\_NO: 17792  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Surface erosion on waterward slope--need to contact owner.  
 FIELD\_STRUCT\_DESC: [Mossdale Outfall] 6 of 6. 30-inch steel drainage pipe through levee at unknown depth. Structure is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landside (LS) shoulder on top of concrete pad. Concrete headwall and gates located on waterside (WS). (six 30-inch pipes authorized under Permit No. 17792, 2005 - City of Lathrop)  
 FS Date: 2/4/2010

Photo 1 of 3 : UCIP\_SP\_2020\_40701\_72470.jpg



Overview of levee crown at crossings.

**\* Location**

LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	11.35	Rating **	M	Issue No.	144 (cont)
LM End	11.35	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.802837 °	37.802837 °	
			-121.311949 °	-121.311949 °	
DWR ID	477				

Photo 2 of 3 : UCIP\_SP\_2020\_40701\_72469.jpg



Outlet concrete headwall and gates on waterward toe.

LM Start	11.35	Rating **	M	Issue No.	144 (cont)
LM End	11.35	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40701\_72468.jpg



View of waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	11.43	Rating **	M	Issue No.	145
LM End	11.43	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.801683 °	37.801683 °
				-121.312001 °	-121.312001 °
DWR ID	53				
Comment Code					
Inspector Comment					
DS_ID:53 FS_ID:45463 EP_NO: 15125 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Pipe appears abandoned as vent is partially burried and pipe not visilbe. If abandoned, it should be done so properly. FIELD_STRUCT_DESC: 7-inch steel pipe through the levee 3.59-feet below levee crown. Siphon breaker located on landside (LS) shoulder. Air vent found on waterside (WS) slope (7-inch installed under Permit No. 15125, 1989 - T. Osborn, Jr., existing 8-inch PVC pipe removed). [Additional Reference(s): DWR Levee Logs, 1981 and 2003] FS Date: 5/21/2015					

LM Start	11.43	Rating **	M	Issue No.	145 (cont)
LM End	11.43	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_45463\_74122.jpg



Vent visible on WS slope. Found partially burried.

Photo 2 of 3 : UCIP\_SP\_2020\_45463\_74121.jpg



Vent visible on WS slope. Found partially burried.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>11.43</b>	Rating **	M	Issue No.	<b>145 (cont)</b>
LM End	<b>11.43</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.801683 °	37.801683 °	
			-121.312001 °	-121.312001 °	
DWR ID	53				

Photo 3 of 3 : UCIP\_SP\_2020\_45463\_74120.jpg



LS slope. No indication of pipe.

LM Start	<b>11.63</b>	Rating **	M	Issue No.	<b>146</b>
LM End	<b>11.63</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.798766 °	37.798766 °	
			-121.312135 °	-121.312135 °	
DWR ID	286				

No Photos

**Comment Code**

**Inspector Comment**

DS\_ID:286  
 FS\_ID:45716  
 EP\_NO: 15053  
 Repair Type: Non-Urgent  
 Crossing Status: Not Found  
 UCIP Comments: Need to determine disposition of pipe.  
 FIELD\_STRUCT\_DESC: 8-inch steel irrigation pipe through levee.  
 Invert of pipe is 4.33 feet below levee crown. Siphon breaker on waterside (WS) shoulder. Pump on WS berm, standpipe at bottom of direct approach ramp. (8-inch pipe authorized under Permit No. 15053, 1989 -T. Jr. & O. J. Osborn, 6-inch pipe installed, 5-inch and 8-inch pipe removed) [Additional Reference(s): DWR Levee Logs, 1981 and 2003]  
 FS Date: 3/25/2010

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	12.14	Rating **	M	Issue No.	147	
LM End	12.14	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.793831 °	37.793831 °	
				-121.305989 °	-121.305989 °	
DWR ID	806					
Comment Code						
Inspector Comment						
DS_ID:806 FS_ID:40702 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No pipe found during site visit only air valve and power meter. Dense vegetation along waterward slope recommend clearing vegetation from slope to conduct proper pipe inspection. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. FIELD_STRUCT_DESC: *REMOVED* 20-inch steel drainage pipe through the levee 5-feet below the crown. Siphon breaker in steel riser on waterside (WS) shoulder and a flap gate on the WS toe. (20-inch pipe authorized under Permit No. 3799, 1961 - Libbey-Owens-Ford Glass Company; 24-inch pipe removed under Permit No. 15318, 1989 - Libby-Owens-Ford Glass Co. & Reclamation District 17 [RD0017], 20-inch pipe installed) [Additional Reference(s): DWR Levee Logs, 1981, 2003, 20-inch. USACE San Joaquin O&M Manual Unit No. 2, May 1963, (HLM 12.16), 20-inch pipe] FS Date: 2/4/2010						

LM Start	12.14	Rating **	M	Issue No.	147 (cont)
LM End	12.14	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40702\_72481.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2020\_40702\_72480.jpg



View of waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

# Reclamation District No. 0017 Mosssdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	12.14	Rating **	M	Issue No.	147 (cont)
LM End	12.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.793831 °	37.793831 °
				-121.305989 °	-121.305989 °
DWR ID	806				

A photograph showing three people standing on a grassy bank next to a large tree, looking across a body of water towards a distant shoreline. The people are wearing hats and a high-visibility vest. The water is calm, and the far bank is visible in the background.

LM Start	12.14	Rating **	M	Issue No.	148
LM End	12.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.793831 °	37.793831 °
				-121.305989 °	-121.305989 °
DWR ID	56				

A photograph showing a gravel-covered ground. On the left, there is a vertical metal pole. In the center, there is a circular metal manhole cover. The background consists of dry grass and a fence.

Comment Code
Inspector Comment
<p>DS_ID:56            FS_ID:45464            EP_NO: 15318            Repair Type: Non-Urgent            Crossing Status: Indicator Found            UCIP Comments: Crossings appears to be abandoned. Need to contact owner to determine status of crossing. If abandoned, it should be done so properly.            FIELD_STRUCT_DESC: 20-inch steel drainage pipe through levee, 3.4-feet below levee crown. Air vent in 12-inch steel riser found on the landside (LS) shoulder. Electric service riser on waterside (WS) berm has been removed. (20-inch pipe authorized under Permit No. 15318, 1989 - Libby-Owens-Ford Glass Co. &amp; Reclamation District 17 [RD0017], 24-inch pipe removed) [Additional Reference(s): DWR Levee Logs, 1981 and 2003]            FS Date: 5/21/2015</p>

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable                      N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable        C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	12.14	Rating **	M	Issue No.	148 (cont)
LM End	12.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.793831 °	37.793831 °
				-121.305989 °	-121.305989 °
DWR ID	56				

Photo 2 of 3 : UCIP\_SP\_2020\_45464\_74124.jpg



View of LS at crossing.

LM Start	12.14	Rating **	M	Issue No.	148 (cont)
LM End	12.14	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_45464\_74123.jpg



View of WS at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	12.14	Rating **	M	Issue No.	149	
LM End	12.14	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.793779 °		37.793779 °
				-121.305984 °		-121.305984 °
DWR ID	799					
Comment Code						
Inspector Comment						
DS_ID:799 FS_ID:40703 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing and obtain additional information about crossing (permit and install date). FIELD_STRUCT_DESC: 48-inch steel drainage pipe through the levee, 2.5-feet below the crown. Siphon breaker on landside (LS) shoulder. Concrete "U" shaped headwall on waterside (WS) toe with flap gate. 8-4 inch steel coated scheduled 40 pipes located on WS shoulder about 6 inch cover. (48-inch pipe and 12-inch pipe authorized under Permit No. 15845, 1993 - City of Lathrop and Kearny Ventures) FS Date: 2/4/2010						

Photo 1 of 3 : UCIP\_SP\_2020\_40703\_72487.jpg



Overview of levee crown at crossings.

LM Start	<b>12.14</b>	Rating **	M	Issue No.	<b>149 (cont)</b>
LM End	<b>12.14</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2020\_40703\_72485.jpg



View of landward side, photo 1 of 2.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

# Reclamation District No. 0017 Mossdale

Page 86 of 100

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>12.14</b>	Rating **	M	Issue No.	<b>150 (cont)</b>
LM End	<b>12.14</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.793766 °	37.793766 °	
			-121.305986 °	-121.305986 °	
DWR ID	800				

Photo 2 of 3 : UCIP\_SP\_2020\_45993\_72495.jpg



View of waterward side.

LM Start	<b>12.14</b>	Rating **	M	Issue No.	<b>150 (cont)</b>
LM End	<b>12.14</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_45993\_72498.jpg



8-4 inch steel coated schedule 40 pipes with about 6 inch of cover.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	12.41	Rating **	M	Issue No.	151	
LM End	12.41	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.789976 °	37.789976 °	
				-121.306853 °	-121.306853 °	
DWR ID	807					
Comment Code						
Inspector Comment						
DS_ID:807 FS_ID:40706 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe disconnected on waterward side. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. FIELD_STRUCT_DESC: 8-inch irrigation pipe of unknown material through levee, 3.2-feet below the crown. Pump on waterside (WS) toe and a siphon breaker on the landside (LS) shoulder. (6-inch pipe authorized under Permit No. 15049, 1989 - T. and I. Queirolo, existing 6-inch pipe removed) [Additional Reference(s): DWR Levee Logs, 1981 and 2003] FS Date: 2/4/2010						

LM Start	<b>12.41</b>	Rating **	M	Issue No.	<b>151 (cont)</b>
LM End	<b>12.41</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40706\_72509.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2020\_40706\_72511.jpg



View of waterward toe--rip rap along pipe alignment.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>12.41</b>	Rating **	M	Issue No.	<b>151 (cont)</b>
LM End	<b>12.41</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.789976 °	37.789976 °	
			-121.306853 °	-121.306853 °	
DWR ID	807				

Photo 3 of 3 : UCIP\_SP\_2020\_40706\_72512.jpg



Non-functional crossing pipe disconnected.

LM Start	<b>12.55</b>	Rating **	M	Issue No.	<b>152</b>
LM End	<b>12.55</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.787929 °	37.787929 °	
			-121.307173 °	-121.307173 °	
DWR ID	60				

**Comment Code**

**Inspector Comment**

DS\_ID:60  
 FS\_ID:40707  
 EP\_NO: 14326  
 Repair Type: Non-Urgent  
 Crossing Status: Indicator Found  
 UCIP Comments: Wires exposed near levee crown unable to determine if these wires are part of the crossing. Need to contact owner to determine status of crossing.  
 FIELD\_STRUCT\_DESC: 4-inch galvanized iron communication cable through levee. Invert of conduit is 3.0 feet below levee crown. (4-inch fiber optic cable authorized under Permit No. 14326, 1986 - GTE Sprint Communications Corp.) [Additional Reference(s): DWR Levee Logs, 1981 and 2003]  
 FS Date: 2/4/2010

Photo 1 of 3 : UCIP\_SP\_2020\_40707\_72515.jpg



Overview of levee crown at crossing.

**\* Location**

LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	12.55	Rating **	M	Issue No.	152 (cont)
LM End	12.55	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.787929 °	37.787929 °	
			-121.307173 °	-121.307173 °	
DWR ID	60				

Photo 2 of 3 : UCIP\_SP\_2020\_40707\_72514.jpg



Crossing alignment along landward side.

LM Start	12.55	Rating **	M	Issue No.	152 (cont)
LM End	12.55	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40707\_72513.jpg



Conduit marker on landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	12.68	Rating **	M	Issue No.	153	
LM End	12.68	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.786343 °	37.786343 °	
				-121.306157 °	-121.306157 °	
DWR ID	808					
Comment Code						
Inspector Comment						
DS_ID:808 FS_ID:45466 EP_NO: 2366 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe exposed on WS slope where soil has been removed from around pipe. There does not appear to be any damage or repair at excavation. Pipe should be buried. FIELD_STRUCT_DESC: 22-inch steel drainage pipe through the levee, 10-feet below levee crown. 54-inch square, concrete manhole at the centerline of the levee between Manthey Road and the HWY 120 on ramp to I-5. (22-inch pipe authorized under Permit No. 2366, 1956 - State of California Department of Public Works Division of Highways District X) [Additional Reference(s): DWR Levee Logs, 1981, 2003, 22-inch listed. USACE San Joaquin O&M Manual Unit No. 2, May 1963, (HLM 12.74), 22-inch pipe] FS Date: 5/21/2015						

LM Start	<b>12.68</b>	Rating **	M	Issue No.	<b>153 (cont)</b>
LM End	<b>12.68</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_45466\_72523.jpg



Pipe was running during field inspection.

Photo 2 of 3 : UCIP\_SP\_2020\_45466\_74131.jpg



Concrete manhole on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>12.68</b>	Rating **	M	Issue No.	<b>153 (cont)</b>
LM End	<b>12.68</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.786343 °	37.786343 °	
			-121.306157 °	-121.306157 °	
DWR ID	808				

Photo 3 of 3 : UCIP\_SP\_2020\_45466\_74130.jpg



Pipe exposed in excavated area on WS slope.

LM Start	<b>13.26</b>	Rating **	M	Issue No.	<b>154</b>
LM End	<b>13.26</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.779653 °	37.779653 °	
			-121.300064 °	-121.300064 °	
DWR ID	65				

**Comment Code**

**Inspector Comment**

DS\_ID:65  
 FS\_ID:40712  
 EP\_NO: 14450  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Need to contact owner to determine status of crossing.  
 FIELD\_STRUCT\_DESC: [Oakwood Lake Discharge Lines] 1 of 2. 18-inch steel drainage discharge pipe through levee at unknown depth below the levee crown. (two 18-inch pipes authorized under Permit No. 14450-1985 - R. H. Brown, remove existing 18-inch pipe) [Additional Reference(s): DWR Levee Logs, 1981 and 2003]  
 FS Date: 2/4/2010

Photo 1 of 3 : UCIP\_SP\_2020\_40712\_72529.jpg



View of landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>13.26</b>	Rating **	M	Issue No.	<b>154 (cont)</b>
LM End	<b>13.26</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.779653 °	37.779653 °	
			-121.300064 °	-121.300064 °	
DWR ID	65				

Photo 2 of 3 : UCIP\_SP\_2020\_40712\_72528.jpg



Pipe section exposed on landward side.

LM Start	<b>13.26</b>	Rating **	M	Issue No.	<b>154 (cont)</b>
LM End	<b>13.26</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40712\_72530.jpg



View of waterward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	13.26	Rating **	M	Issue No.	155	
LM End	13.26	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.779643 °	37.779643 °	
				-121.300057 °	-121.300057 °	
DWR ID	287					
Comment Code						
Inspector Comment						
DS_ID:287 FS_ID:40713 EP_NO: 14450 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: [Oakwood Lake Discharge Lines] 2 of 2. 18-inch steel drainage discharge pipe through levee at unknown depth below the levee crown. (two 18-inch pipes authorized under Permit No. 14450-1985 - R. H. Brown, remove existing 18-inch pipe) [Additional Reference(s): DWR Levee Logs, 1981 and 2003] FS Date: 2/4/2010						

LM Start	13.26	Rating **	M	Issue No.	155 (cont)
LM End	13.26	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40713\_72534.jpg



Precast concrete box located on levee shoulder.

Photo 2 of 3 : UCIP\_SP\_2020\_40713\_72533.jpg



Pipes visible on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

# Reclamation District No. 0017 Mosssdale

Page 95 of 100

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>13.27</b>	Rating **	M	Issue No.	<b>156 (cont)</b>
LM End	<b>13.27</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.779546 °	37.779546 °	
			-121.299981 °	-121.299981 °	
DWR ID	66				

Photo 2 of 3 : UCIP\_SP\_2020\_40714\_72539.jpg



Control box and distribution box located on waterward shoulder.

LM Start	<b>13.27</b>	Rating **	M	Issue No.	<b>156 (cont)</b>
LM End	<b>13.27</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40714\_72542.jpg



View of waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	13.28	Rating **	M	Issue No.	157
LM End	13.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779470 °	37.779470 °
				-121.299954 °	-121.299954 °
DWR ID	67				

**Comment Code**

**Inspector Comment**

DS\_ID:67  
 FS\_ID:45995  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Indicator Found  
 UCIP Comments: Markers visible on landward side only. Recommend contacting owner to confirm alignment and crossing.  
 FIELD\_STRUCT\_DESC: Submarine power cable through the levee and across the channel. [Additional Reference(s): DWR Levee Logs, 1981 and 2003]  
 FS Date: 2/4/2010

LM Start	<b>13.28</b>	Rating **	M	Issue No.	<b>157 (cont)</b>
LM End	<b>13.28</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_SP\_2020\_45995\_72526.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP\_SP\_2020\_45995\_72525.jpg



Markers visible along landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	13.28	Rating **	M	Issue No.	158	
LM End	13.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.779470 °	37.779470 °	
				-121.299953 °	-121.299953 °	
DWR ID	809					
Comment Code						
Inspector Comment						
DS_ID:809 FS_ID:40715 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No information was obtained from desk study. This crossing was found during field visit. Need to contact owner to obtain additional details about crossing (installation date and permit) and status. FIELD_STRUCT_DESC: *ABANDONED* [Reclamation District No. 17 Drainage Plant] 18-inch drainage pipe of unknown material through the levee, 5.8 feet below the crown. Gate valve and siphon breaker on the waterside (WS) slope. Flap gate on the WS end. One CM cutoff wall. Pump on the landside (LS). (18-inch pipe Installed by USACE in 1961 -- no permit found; existing 18-inch pipe removed under Permit No. 14450, 1988 - R. H. Brown, two 18-inch pipes installed) [Additional Reference(s): DWR Levee Logs, 1981, 2003. USACE San Joaquin O&M Manual Unit No. 2, May 1963, (HLM 13.36)] FS Date: 2/4/2010						

LM Start	<b>13.28</b>	Rating **	M	Issue No.	<b>158 (cont)</b>
LM End	<b>13.28</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_40715\_72548.jpg



View of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2020\_40715\_72551.jpg



View of waterward side, photo 1 of 2.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>13.28</b>	Rating **	M	Issue No.	<b>158 (cont)</b>
LM End	<b>13.28</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.779470 °	37.779470 °	
			-121.299953 °	-121.299953 °	
DWR ID	809				

Photo 3 of 3 : UCIP\_SP\_2020\_40715\_72549.jpg



View of waterward side, photo 2 of 2.

LM Start	<b>14.20</b>	Rating **	M	Issue No.	<b>159</b>
LM End	<b>14.20</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.772267 °	37.772267 °	
			-121.290202 °	-121.290202 °	
DWR ID	69				

**Comment Code**

**Inspector Comment**

DS\_ID:69  
 FS\_ID:40716  
 EP\_NO: 15165  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Pump was working during the survey. Levee toe erosion at waterward side. Recommend contacting owner to determine status and to evaluate erosion at waterward toe.  
 FIELD\_STRUCT\_DESC: 20-inch steel irrigation pipe through the levee, 1.7-feet below the crown. Pump on pile structure in the stream. Wooden walkway to the pump. concrete distribution box at the toe of the landside (LS) slope. (20-inch pipe authorized under Permit No. 15165, 1989 - Baird Lands, Inc., existing 18-inch pipe removed )  
 [Additional Reference(s): DWR Levee Logs, 1981 and 2003]  
 FS Date: 2/4/2010

Photo 1 of 3 : UCIP\_SP\_2020\_40716\_72557.jpg



Overview of levee crown at crossing.

**\* Location**

LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	03/19/2020 03/19/2020	Alberto De Leon

LM Start	<b>14.20</b>	Rating **	M	Issue No.	<b>159 (cont)</b>
LM End	<b>14.20</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.772267 °	37.772267 °	
			-121.290202 °	-121.290202 °	
DWR ID	69				

Photo 2 of 3 : UCIP\_SP\_2020\_40716\_72556.jpg



Pipe operable during survey.

LM Start	<b>14.20</b>	Rating **	M	Issue No.	<b>159 (cont)</b>
LM End	<b>14.20</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_40716\_72555.jpg



Scour hole located immediately upstream from crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---